

Serial No. Unassigned

TSRI 880.1

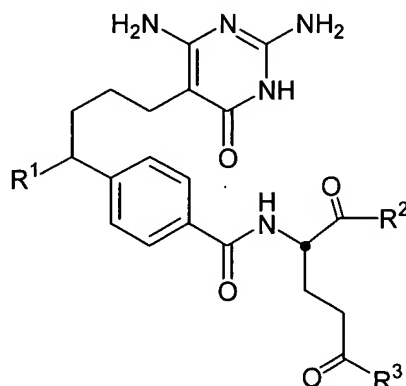
This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of claims:**

What is claimed is:

Claim 1 (original): A compound represented by the following structure:

5



wherein:

- 10  $R^1$  is a radical selected from the group consisting of  $-C(O)H$ ,  $-CH_2OH$ ,  $-CH=NNMe_2$ ,  $-C(O)CF_3$ , and  $-CH(OH)CF_3$ ;
- $R^2$  is a radical selected from the group consisting of  $-OH$ ,  $-OtBu$ , glutamyl, and oligoglutamyl;
- $R^3$  is a radical selected from the group consisting of  $-OH$ ,  $-OtBu$ , glutamyl, and oligoglutamyl;
- 15 each glutamyl being independently represented by the formula:  
 $-NHCH(C(O)R^4)(CH_2)_2C(O)R^5$  wherein  $R^4$  and  $R^5$  are each radicals independently selected from the group consisting of  $-OH$  and  $-OtBu$ ;  
 each oligoglutamyl having at least one terminal glutamyl and between one and four non-terminal glutamyl residues;

each terminal glutamyl being independently represented by the formula

$-\text{NHCH}(\text{C}(\text{O})\text{R}^4)(\text{CH}_2)_2\text{C}(\text{O})\text{R}^5$  wherein  $\text{R}^4$  and  $\text{R}^5$  are each radicals  
independently selected from the group consisting of  $-\text{OH}$  and  $-\text{OtBu}$ ;

each non-terminal glutamyl being independently represented by the formula

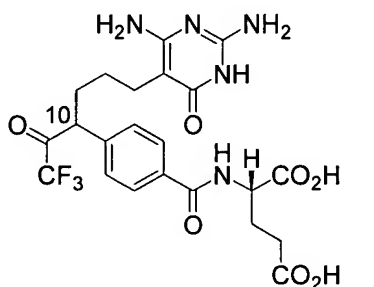
5  $-\text{NHCH}(\text{C}(\text{O})\text{R}^6)(\text{CH}_2)_2\text{C}(\text{O})\text{R}^7$  wherein  $\text{R}^6$  and  $\text{R}^7$  are each radicals  
independently selected from the group consisting of  $-\text{OH}$ ,  $-\text{OtBu}$ , terminal  
glutamyl, and non-terminal glutamyl;

with a proviso that at least one of  $\text{R}^6$  and  $\text{R}^7$  is either terminal glutamyl or non-  
terminal glutamyl.

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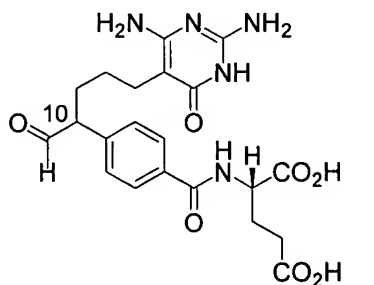
Claim 2 (original): A compound according to claim 1 represented by the following  
structure:

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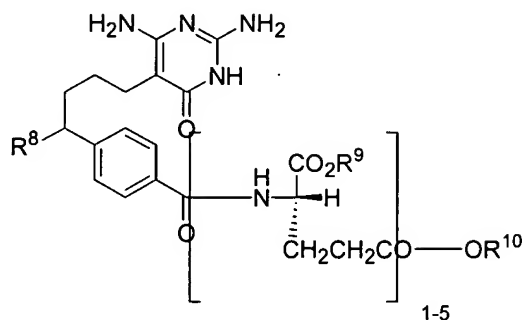
20 Claim 3 (original): A compound according to claim 1 represented by the following  
structure:

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Claim 4 (original): A compound according to claim 1 represented by the following structure:

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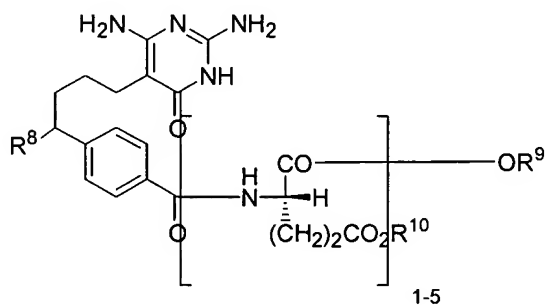
wherein

10  $R^8$  is a radical selected from the group consisting of  $-C(O)H$  and  $-C(O)CF_3$ ; and

$R^9$  and  $R^{10}$  are each a radical independently selected from the group consisting of  $-H$  and  $-tBu$ .

15 Claim 5 (original): A compound according to claim 1 represented by the following structure:

20



wherein

25  $R^8$  is a radical selected from the group consisting of  $-C(O)H$  and  $-C(O)CF_3$ ; and

R<sup>9</sup> and R<sup>10</sup> are each a radical independently selected from the group consisting of -H and -*t*Bu.

Claim 6 (original): A process for inhibiting glycinamide ribonucleotide transformylase  
5 comprising the step of contacting the glycinamide ribonucleotide transformylase with an inhibiting concentration of a compound described in claims 1-5.

Claim 7 (original): A process for inhibiting aminoimidazole carboxamide ribonucleotide  
transformylase comprising the step of contacting the aminoimidazole carboxamide  
10 ribonucleotide transformylase with an inhibiting concentration of a compound described in claims 1-5.

Claim 8 (new): A complex comprising glycinamide ribonucleotide transformylase and a  
compound of claims 1-5 wherein the compound of claims 1-5 is non-covalently  
15 complexed with the glycinamide ribonucleotide transformylase.